

LITHIUM SECONDARY BATTERY

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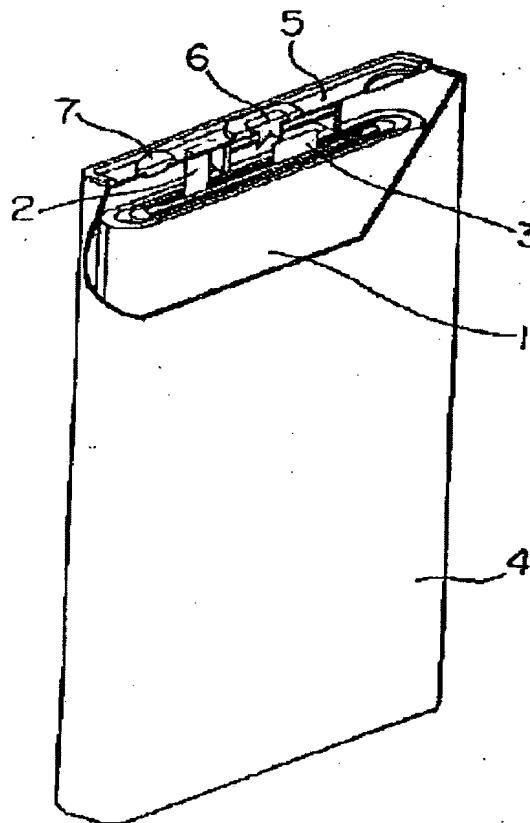
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Abstract of JP2003142075

PROBLEM TO BE SOLVED: To provide an inexpensive lithium secondary battery having high energy density and high safety without easily causing capacity deterioration even in storing the battery in a high-temperature atmosphere. **SOLUTION:** This lithium secondary battery is provided with a negative electrode comprising copper foil and a negative electrode mix layer formed on the copper foil and having a density of $1.4\text{--}1.8\text{ g/cm}^3$, a positive electrode comprising aluminum foil and a positive electrode mix layer formed on the aluminum foil and having a density of $3.3\text{--}3.7\text{ g/cm}^3$, and a nonaqueous electrolyte. The negative electrode mix layer comprises graphite and graphatization retarding carbon. The positive electrode mix layer is formed of at least one kind selected from among a group comprising an active material (a) comprising LiMn_2O_4 and LiNiO_2 , an active material (b) formed of $\text{LiMn}_x\text{Ni}_{1-x}\text{O}_2$, an active material (c) comprising LiMn_2O_4 , LiNiO_2 and LiCoO_2 , and an active material (d) formed of $\text{LiMn}_y\text{Ni}_z\text{Co}_{1-y-z}$.



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